

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended) A pressure relief apparatus for use within a pressurized interior area of a mobile platform, said apparatus comprising:

a one piece noise insulation baffle secured directly to a floor structure of the mobile platform, the noise insulation baffle including:

a main body ~~secured to a floor structure of the mobile platform;~~ and
at least one blow out plug having a perimeter at least partially formed by a recessed portion ~~of the pressure relief apparatus , the perimeter forming the blow out plug in a shape that matches a shape of an air pathway in the floor structure covered by the noise insulation baffle;~~

wherein the recessed portion is adapted to sever if a pressure differential between ~~[[a]]~~ an upper lobe and a lower lobe of the mobile platform exceeds a predetermined threshold, thereby at least partially separating the blow out plug from the main body.

2. (currently amended) The apparatus according to Claim 1, ~~further comprising a utility aperture for routing utilities between the upper lobe and the lower lobe~~ wherein the noise insulation baffle is constructed of a material suitable to substantially reduce noise transmitted from the lower lobe to the upper lobe.

3. (original) The apparatus according to Claim 1, wherein the recessed portion extends along only a portion of the perimeter.

4. (currently amended) The apparatus according to Claim 3, wherein the recessed portion extends along the entire perimeter such that the blow out plug completely separates from the main body when the pressure differential exceeds the threshold.

5. (currently amended) The apparatus according to Claim 1, wherein the recessed portion forms intermittent perforations extending along at least a portion of the perimeter, wherein the perforations extend entirely through a thickness of the ~~pressure relief apparatus~~ noise insulation baffle.

6. (original) The apparatus according to Claim 1, further comprising a portion of the perimeter with the same thickness as the body such that the blow out plug is connected to the main body in a hinge-like manner.

7. (original) The apparatus according to Claim 1, wherein the blow out plug includes at least one an air hole.

8. (currently amended) The apparatus according to Claim 1, wherein the blow out plug ~~perimeter forms a shape that corresponds to an air pathway in the floor structure~~ includes a utility aperture for routing utilities between the upper lobe and the lower lobe.

9. (currently amended) A noise insulation baffle for a mobile platform, said noise insulation baffle comprising:

a main body portion secured directly to a truss structure of the mobile platform;

at least one blow out portion having a perimeter forming the blow out portion in a shape that matches a shape of an air pathway in the truss structure covered by the blow out portion; and

at least one recess defining ~~at least part of a~~ the perimeter of the blow out portion, the recess adapted to form a web portion connecting the blow out portion with the main body portion, the web portion adapted to sever such that ~~at least a section of~~ the blow out portion separates from the main body portion when a pressure differential between an upper lobe and a lower lobe of the mobile platform exceeds a predetermined threshold.

10. (currently amended) The baffle according to Claim 9, wherein the baffle further comprises ~~at least one utility aperture for providing a passage of utilities between an upper and an lower lobe of the mobile platform~~ a material suitable to substantially reduce noise transmitted from the lower lobe to the upper lobe.

11. (currently amended) The baffle according to Claim ~~[[9]]~~ 10, wherein ~~the recess defines approximately two-thirds of the blow out portion perimeter~~ the material comprises melamine foam.

12. (currently amended) The baffle according to Claim ~~[[9]]~~ 10, wherein ~~the recess defines the entire blow out portion perimeter~~ the material comprises polyimide solimide foam.

13. (original) The baffle according to Claim 9, wherein the blow out portion comprises at least one air hole adapted to provide an air passage between an upper and an lower lobe of the mobile platform.

14. (original) The baffle according to Claim 9, wherein the baffle further comprises at least two blow out plug portions.

15. (cancelled)

16. (currently amended) A mobile platform comprising:
an upper lobe;
a lower lobe;
a floor ~~structural~~ structure between the upper lobe and the lower lobe, the floor structure including at least one air pathway; and
a noise ~~[[an]]~~ insulation baffle constructed of a noise reducing foam that substantially reduces the transmission of noise from the lower lobe to the upper lobe, the noise insulation baffle comprising:

a main body portion secured directly to a floor structure of the mobile platform;

at least one blow out portion having a perimeter forming the blow out portion in a shape that matches a shape of the air pathway in the floor structure covered by the blow out portion; and

at least one recess defining ~~at least part of a~~ the perimeter of the blow out portion, the recess adapted to form a web portion connecting the blow out portion with the main body portion, the web portion adapted to sever such that ~~at least a section of~~ the blow out portion separates from the main body portion when a pressure differential between an upper lobe and a lower lobe of the mobile platform exceeds a predetermined threshold.

17. (original) The mobile platform according to Claim 16, wherein the baffle further comprises at least one utility aperture for providing a passage of utilities between an upper and an lower lobe of the mobile platform.

18. (currently amended) The mobile platform according to Claim 16, wherein the blow out portion comprises at least one air hole adapted to provide an air passage between ~~[[an]]~~ the upper and ~~[[an]]~~ the lower lobe of the mobile platform.

19. (currently amended) The mobile platform according to Claim 16, ~~the perimeter of the blow out plug portion forms a shape corresponding to an air pathway in a floor structure of the mobile platform~~ wherein the noise insulation is constructed of one of melamine foam and polyimide solimide foam.

20. (currently amended) A method for reducing noise transmission between a first lobe and a second lobe of a mobile platform, the method comprising:

securing a noise insulation baffle directly to a floor structure disposed between the first and second lobes, wherein the insulation baffle is constructed of one of melamine foam and polyimide solimide foam and includes at least one recess that

defines a main portion and at least one blow out portion, the recess further forms a severable web portion connecting the main portion and the blow out portion and a perimeter of the blow out portion that defines a shape of the blow out portion that matches a shape of an air pathway in the floor structure; and

aligning the blow out portion with ~~[[an]]~~ the air pathway ~~in the floor structure~~ so that if the pressure differential between the first and second lobes exceeds a predetermined threshold, the web portion will sever allowing the blow out portion to completely separate from the main body portion so that the pressure differential will rapidly be reduced to approximately zero.